~~7~~8 Nos

2nd

SBR NO. 44/20-21

DATED 07.08.2020

JOB No. 008-17-000057.

**M. A. R. 57 (Rule 116)**

Measurement Book

**No. B** 501730

erial No. Sub-Estimate for Providing Pathway lighting at Sarakkarveger

ame of Work "D" BLK Play ground surrounding From ..... To .....

ame of Contractor of nature of Agency Technical Manager KRIDL BBMP Bengaluru.

ate of commencement of work EE(SB)-12/WO/000002/20-21 Date. 8/6/2020

| Date 1 | Full description, etc, of work 2 | Dimensions | | | | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|---|
| | | Number 3 | Length 4 | Breadth 5 | Depth 6 | | |
| 1) | Fabricating, supplying and Erection of MS. Poles as per Detailed Spec Ref Sore MB. Page No 501720 Item No 1. | | 14 | Nos | 5037/- | Each. | 70518-00 |
| 2) | Supplying of 1.1kV UG cable XLPE Insulated Pvc sheathed Pvc Inner sheathed Steel armoured UG LT cable as per IS-1554 (Part-1) of IS-7098 Part-1, Terminating End Shrinkoff Jointing complete with Aluminium Lugs as per IS-3975 4 Core Nos Sparrow. | | | | | | |

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# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents |
|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Panel Board to Pole no | 1 | | 1 | 25-50 mtr | |
| | Pole no 1 to Pole no 2 | | | 1 | 16-00 mtr | |
| | Pole no 2 to Pole no 3 | | | 1 | 16-00 mtr | |
| | Pole no 3 to Pole no 4 | | | 1 | 16-00 mtr | |
| | Pole no 4 to Pole no 5 | | | 1 | 17-00 mtr | |
| | Pole no 5 to Pole no 6 | | | 1 | 17-00 mtr | |
| | Pole no 6 to Pole no 7 | | | 1 | 16-00 mtr | |
| | Pole no 7 to Pole no 8 | | | 1 | 16-00 mtr | |
| | Pole no 8 to Pole no 9 | | | 1 | 16-00 mtr | |
| | Pole no 9 to Pole no 10 | | | 1 | 16-00 mtr | |
| | Pole no 10 to Pole no 11 | | | 1 | 16-00 mtr | |
| | Pole no 11 to Pole no 12 | | | 1 | 17-00 mtr | |
| | Pole no 12 to Pole no 13 | | | 1 | 16-00 mtr | |
| | Pole no 13 to Pole no 14 | | | 1 | 17-00 mtr | |
| | Pole no 14 to Pole no 1 | | | 2 | 15-00 mtr | |
| | | Total | | | 253 | mtr. |

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**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B** 501731

erial No. .....

ame of Work ..... From..... To.....

ame of Contractor of nature of Agency .....

ate of commencement of work .....

| ate | Full description, etc, of work<br>2 | Dimensions<br>Number<br>3 | Length<br>4 | Breadth<br>5 | Depth<br>6 | Contents<br>7 | Reference to last Measurement<br>8 |
|---|---|---|---|---|---|---|---|
| | | | 253 | mtrs | 150 | Plnth | 37950-00 |
| | 3) Labour charges for carrying GI wire 4 core 6 sq mm cable in existing trench in PVC pipe/wooden/on pole as required for existing trench/duct 6 sqmm to 16 sqmm. item no. 1 | | 253 | mtrs | 11-88 | Plnth | 3005-64. |
| | 1) Digging a trench of 0.6 mtr deep x 0.30 mtr wide refilling the trench to the required ground level and consolidating etc complete (As per CPWD SR | | | | | | |

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# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Providing RCC-2, P-7 Nos Sand (curbing) | | 1.25 | mtr | 70/- | -/- | 1420/- |
| 5) | Making for leaking (Drain FRLs Pvc Excavated work grad. earth by cutting cross city road today remove pipe cope in open or concealed scattering using with trench (5-6ft) Corrosive to Rate of according 1-55 qrm | | 100 | mtr | 20/0 | Qty | 2050/- |
| | Pole bottom to weighting mtg. 3.75 mtr X 14 Nos X 2 Runs. = 105 mtr. | | | | | | |
| 6) | 1.5 qrm Paint board making. | | 18 | mtr | 11.5/- | Pty | 207/- |

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**M. A. R. 57 (Rule 116)**
Measurement Book

**No. B** 501732

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | 2 | Number 3 | Length 4 | Breadth 5 | Depth 6 | 7 | 8 |
| 7) | Providing RCC Pole Pedestal of size 0-3x0-3 mts including digging of pit, for steel anchoring bolts, nuts, templates, centering 1:4:8 base concrete 1:2:4 Pedestal concrete cd &c complete as per the data sheet Enclosed. | 14 | Nos | 1080/- | -B- | 15120/- | |
| 8) | Supply of (6V) Pole mounting type Post top lantern with Prefabricated cast all towing body for optimal thermal protection. Sup compartment comprising of anti glare clear | | | | | | |

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# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Manufacturing & Supply of Metal Halide / Sodium Vapour from make CGD Series CGD Post Top Lantern 35 watts mounted on the Poly- | | 14 | NO | 6400/- | -G- | 89600/- |
| 9) | Supply of CGD Street Light Luminaire For Detailed Spec Ref Same MB Page No 501723 Item No 9.9 90 watts | | 18 | NO | 7160/- | -G- | 128880/- |
| | 1) SCF/08/B446/TC25/2100 - 02286 10 Nos Measurement | | | | | | |
| | 2) 0793 14th main 'A' Block Sahakaranagar | | | | | | |
| | 3) SCF/08/DA/TM/14/TC45/2100 0344 NTI Layout De-Emelam | | | | | | |

Near N.S. Pharma

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# M. A. R. 57 (Rule 116)
## Measurement Book

**No. B** 501734

rial No. .....

me of Work ..... From..... To.....

me of Contractor of nature of Agency .....

te of commencement of work .....

| ate | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | 2 | Number 3 | Length 4 | Breadth 5 | Depth 6 | 7 | 8 |
| | 4) ₹27 LKR roger Deviroger | | | | | | |
| | 5) ₹272, 80 feet Road Tataroger Deviroger | | | | | | |
| | 6) Tataroger Entrance Bredroppa Layout | | | | | | |
| | 7) ₹1451, 6" dg 'B' Block. CBR Layout | | | | | | |
| | 8) ₹2307.23rd A Cross C Block Schedule | | | | | | |
| | 9) ₹189 & ₹183 6th M Defence Layout | | | | | | |
| | 10) ₹ 84 CBR Layout Tataroger | | | | | | |
| | 11) BCH/081/TATI/0m/09/16/0 ITL ₹125 10th M Tata roger | | | | | | |

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# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Ref to Measu |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| | (2) ಶಿಕಾರಿಪುರ/ಅಡಿ/ತಾಲೂಕು/ಆಫೀಸ್/ಟೌನ್/ಪ್ಲಾನಿಂಗ್/ಆಫೀಸ್ | | | | | | |
| | (3) ಶಿಕಾರಿಪುರ/ಡಿವಿಜನ್/ಟೌನ್/ಪ್ಲಾನಿಂಗ್/ಆಫೀಸ್ | | | | | | |
| | (4) ಶಿಕಾರಿಪುರ/ಅಡಿ/ಡಿವಿಜನ್/ಟೌನ್/ಪ್ಲಾನಿಂಗ್/ಆಫೀಸ್ | | | | | | |
| | (5) ಶಿಕಾರಿಪುರ/ಅಡಿ/ಬಿಲ್ಡಿಂಗ್/ಟೌನ್/ಪ್ಲಾನಿಂಗ್/ಆಫೀಸ್ | | | | | | |
| | (6) 2nd ಕ್ರಾಸ್ ಗಾಂಧಿ ನಗರ | | | | | | |
| | (7) ಗಾಂಧಿ ನಗರ 'D' ಬ್ಲಾಕ್ | | | | | | |
| | (8) ಹೊಸಪೇಟೆ 'B' block | | | | | | |
| (9) | ಸರ್ವೆ ಆಫ್ ಸಿವಿಲ್ floodlight ಸಿಮೆಂಟ್ ಕಾಂಕ್ರೀಟ್ ಮಾಡಿದ ಮೇಲೆ ಮೇಲ್ಭಾಗದ ಸ್ಲಾಬ್ ಮತ್ತು ಕಾಲಂ ಗಳಿಗೆ ಸೆಂಟ್ರಿಂಗ್ ಮತ್ತು ಶಟರಿಂಗ್ ಕೆಲಸ | | | | | | |

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# M. A. R. 57 (Rule 116)
## Measurement Book

No. B 501735

ial No. .....

me of Work ..... From..... To.....

me of Contractor of nature of Agency .....

te of commencement of work .....

| ate | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | 4 anti glare clear shuttery with protection coated polycarbonate clear glass natural delivery efficient light output. Rated life burning HRS 50000 HRS @ lumen maintenance of 70% CRI 75 Look. IP 66 optical electrical components & Impact resistant complete luminaire Weight. Power factor >0.9 with rating surge protection min 5kV along with over voltage lowered Front cut off. air protection. cold for Robust venting with entry of corrosive Universal voltage driver to operate wide control range from wire to 2 to 4 sq 50/60 Hz application. Compliance | | | | | | |

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | Washing with required and mild/Name shall be Engraved/Embossing on the die cast all body part having of 2 HP capacity motor testing outlet air body Pressure Electrical cabling & other above work be given by LED downlight & cree/Nichia/Wipro/Osram make LED Power LED Floodlight 180W | 6 | NO | 17600/- | 6. | | 105600/- |
| 11) | HP Piping / Wiring Charge Earth Electrode For Detailed Ref Same MB Page No 501725 Item No 11. | 2 | NO | 2999-70 | 6. | | 5999-40 |

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# M. A. R. 57 (Rule 116)
## Measurement Book

**No. B** 501736

erial No. .....

ame of Work ..... From..... To.....

ame of Contractor of nature of Agency .....

ate of commencement of work .....

| ate | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | 2 | Number 3 | Length 4 | Breadth 5 | Depth 6 | 7 | 8 |
| (2) | Fabricating supplying cut mounting m.s bolt For Detailed Rate ref same MB Page no 501726 Item no 12.30135 sqcm x 3 Pairs = 90405 sqcm. | | 89540 | sqcm | 0.35 | sqcm | 31339-00 |
| (3) | supplying cut fixing cple from Framework Fabricated cutting m.s Iron. ceiling plate -with bolts, washers & cut Punched with 2 cutting & sharp & red oxide cut Plate 100x40x6mm | | 16 | nos | 25/- | Pkt | 400/- |

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# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| (14) | Supply and fixing of 4 Pole MCB/MC contactor on existing Metal box, wires, etc complete with AC-3 (50 to 125A | Each | Door Cutout with wooden Panel | | board only | | |
| | | | 2 | nos | 72nos | - 0 - | 14400/- |
| 15) | Supplying and fixing moulded case circuit breaker (MCCB) on the existing wooden Pole board only necessary screws, bolts, nuts necessary the existing, cable and only cable with terminal ends including making necessary connections (Upto 125A) | | | | | | |
| | Four Pole (upto 125A | 2 | nos | 64000/- | - 0 - | | 128000/- |

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# M. A. R. 57 (Rule 116)
## Measurement Book

No. B 501737

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 4/ | Providing and fixing DB's using Nuttery Screw, Isolator ON/OFF Rotary cam-3 with short test breaking capacity 9 KA etc complete as per required Centre to Centre. 400 A.DP | Nos 1 | 0M | Including Nos 1 | | Rs 1336/- | 400/- |
| 17 | Supplying and fixing 9 mm dia GI Nipple brought up to 2 mtr long bent at suitable angle and bring to the wall 1 No 40/24 KOW Flexible tube Front Light Fitty & all complete | | | | | | |

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# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | to cut & clear sand & RCC Rob/wall curing suitable clay bunds, cut drain cut curing curing suitable capacity curry. cuy 32m 12m 1.2m | | | | | | |
| | for 90W LED street lights. | | 18 | NS | 8.35 | -B | 15030/- |
| 18) | supply & fixing of Twin Dual Electro mechanical type Current actuated oil immersed Bolt, nuts & washers | | 2 | NS | each | -B | 8400/- |
| 19) | Thirty kva pole mounted three phase smart street light control & monitoring system Remotely control & monitorable smart street light System by using suitable | | | | | | |

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# M. A. R. 57 (Rule 116)
## Measurement Book

No. B 501738

erial No. .....

lame of Work ..... From..... To.....

lame of Contractor of nature of Agency .....

)ate of commencement of work .....

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | application for maintenance contract system by hardware suggesting our field engineer have dry run test testing of any other functionality in route it for some feature like.<br>1) Remote testing movement,<br>2) Remote lighting turn off.<br>3) Load balancing<br>4) Load power regulation<br>5) Static routering. it work on the basis of some field feature (1) main control unit (motherboard) handling controlling data handling | | | | | | |

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# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | End offg communication Module<br>2) communication unit consisting of RS232 interface<br>between with RJ232 interface receiving communication<br>3). Gate Drive Unit, fitting of to controllable<br>board for driving the thyristor (or) switching<br>thyristor SCR IGBT and thyristor module<br>for firing & Embedded software, return to<br>central module process the data of command<br>at controller (or) metal enclosure DC to AC<br>type metal enclosure (or) Two terminal section<br>set down strongly to various purpose<br>& energy totally during entirely current | | | | | | |

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# M. A. R. 57 (Rule 116)
## Measurement Book

No. B 501739

l No. .....

e of Work ..... From..... To.....

e of Contractor of nature of Agency .....

of commencement of work .....

| Full description, etc, of work 2 | Dimensions | | | | Contents 7 | Reference to last Measurement 8 |
|---|---|---|---|---|---|---|
| | Number 3 | Length 4 | Breadth 5 | Depth 6 | | |
| Three Phase For High mast D' | Bldg. | 1 | NO | 51500/- | -8- | 51500/- |
| Add for DL charges | 4% | | | | Rs | 617170-04 |
| Add for GST | 12% | | | | Rs | 74060-40 |
| | | | | | Total | 715917-25 |
| | | | | | | 715900.00 |

Certificate

Certify that the work has been executed satisfactorily.

₹ 715900/-

Assistant Executive Engineer,
R.R. Nagar, Sub-Division,
KRIDL, BBMP, Bangalore

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
(ವಿದ್ಯುತ್) ಯಲಹಂಕ ... ಉ-ವಿಭಾಗ

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2nd final.

# MEASUREMENT BOOK

| Date | Full description, etc, of work | Dimensions | | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|---|
| | | Number | Length | Breadth | Depth | | |
| 1 | P2178 Work Sanctioned By | 3 | 4 | 5 | 6 | 7 | 8 |
| | Deputy mayor. | | Total. | | 29,92,900 | | |
| | | | 1st part | | 22,77,000 | | |
| | | | 2nd final | | 765,900 | | |
| | | | I+ | | 1438 | | |
| | | | C&S+ | | 6392 | | |
| | | | S&S+ | | 6392 | | |
| | | | FSD | | 35800 | | |
| | | | Cess | | 7159 | | |
| | | | CBI= | | 716 | | |
| | | | Fine | | 723 | | |
| | | | Ded:. | | 71500 | | |
| | | | cheque. | | 644400 | | |

ರಡಿ ಲೆಕ್ಕಶೀರ್ಷಿಕೆ ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 715900/- ಗಳನ್ನು ಪಾಸು ಮಾಡಿದೆ. ಇದರಲ್ಲಿ ರೂ. 71500/- ಗಳನ್ನು ಹೊಂದಾಣಿಕೆ ಮಾಡಿಕೊಂಡು ರೂ. 644,400/- ಗಳನ್ನು

FT/NEFT/RTGS ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ

ವಿಷಯ ನಿರ್ವಾಹಕರು

ಲೆಕ್ಕಾಧೀಕ್ಷಕರು 13/8 ಬ್ಯಾಂಗಳೂರು ಬೃಹನ್ನಗರ ಪಾಲಿಕೆ ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು 13/8 ಬ್ಯಾಂಗಳೂರು ಕೇಂದ್ರ ವಿಭಾಗ ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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